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APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. 07/21/2003 10/624,076 Vladimir Mancevski 500929.000017B 5156 **EXAMINER** 27644 01/30/2006 7590 THOMPSON & KNIGHT L.L.P. STADLER, REBECCA M PATENT PROSECUTION DEPARTMENT ART UNIT PAPER NUMBER 98 SAN JACINTO BLVD., SUITE 1900 AUSTIN, TX 78701 1754

DATE MAILED: 01/30/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

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Office Action Summary	Application No.	Applicant(s)
	10/624,076	MANCEVSKI, VLADIMIR
	Examiner	Art Unit
	Rebecca M. Stadler	1754
The MAILING DATE of this communication a Period for Reply	ppears on the cover sheet with the	correspondence address
A SHORTENED STATUTORY PERIOD FOR REP WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR of after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory perior Failure to reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATIO 1.136(a). In no event, however, may a reply be to d will apply and will expire SIX (6) MONTHS fror ute, cause the application to become ABANDON	N. imely filed not this communication. ED (35 U.S.C. § 133).
Status		
1) Responsive to communication(s) filed on <u>07</u>	August 2003.	
2a) ☐ This action is FINAL . 2b) ☒ This action is non-final.		
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is		
closed in accordance with the practice under	Ex parte Quayle, 1935 C.D. 11, 4	153 O.G. 213.
Disposition of Claims		
4)⊠ Claim(s) <u>1-3</u> is/are pending in the application.		
4a) Of the above claim(s) is/are withdrawn from consideration.		
5) Claim(s) is/are allowed.		
6)⊠ Claim(s) <u>1-3</u> is/are rejected.		
7) Claim(s) is/are objected to.		
8) Claim(s) are subject to restriction and	or election requirement.	
Application Papers		
9) The specification is objected to by the Examin	ner.	
10)⊠ The drawing(s) filed on <u>07 August 2003</u> is/are		I to by the Examiner.
Applicant may not request that any objection to the	, , , , , , , , , , , , , , , , , , , ,	<u> </u>
Replacement drawing sheet(s) including the corre	ection is required if the drawing(s) is o	bjected to. See 37 CFR 1.121(d).
11) The oath or declaration is objected to by the	Examiner. Note the attached Offic	e Action or form PTO-152.
Priority under 35 U.S.C. § 119		
12) ☐ Acknowledgment is made of a claim for foreig a) ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority docume	,	a)-(d) or (f).
2. Certified copies of the priority documents have been received in Application No		
3. Copies of the certified copies of the priority documents have been received in this National Stage		
application from the International Bureau (PCT Rule 17.2(a)).		
* See the attached detailed Office action for a li	st of the certified copies not receiv	ved.
Attachment(s)		
1) Notice of References Cited (PTO-892)	4) Interview Summar	
 Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0 	Paper No(s)/Mail (8) 5) Notice of Informal	Date Patent Application (PTO-152)
Paper No(s)/Mail Date	6) Other:	.,,

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Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 1-3 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nakamoto 6,097,138 in view of Moskovits 6,129,901.

Nakamoto '138 discloses a carbon nanotube produced on a protrusion (see Figure 12 and column 15, line 66 – column 16, line 5). Nakamoto synthesizes the carbon nanotubes by arc-discharge, which does not appear to require a catalyst. The Moskovits reference teaches a catalyst retaining structure (in the form of uniform and parallel pores of alumina nano-emplates) and forming carbon nanotubes therein (see column 2, lines 12-22). It would have been obvious

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to add the pores of Moskovits into the protrusion of Nakamoto in order to ensure that the carbon nanotubes are aligned in the field emission device. Aligning the nanotubes ensures a relatively uniform emission over the surface of the field emission display. Further, synthesizing carbon nanotubes by chemical vapor deposition with a catalyst produces more pure and higher yield carbon nanotubes. Finally, even though the Nakamoto reference produces the nanotubes on conductive material and the Moskovits references grows nanotubes on anodized alumina, the references are combinable because both materials are known to grow carbon nanotubes.

Double Patenting

Claims 1-3 are rejected on the ground of nonstatutory double patenting over claim 1 of U. S. Patent No. 6,146,227 since the claims, if allowed, would improperly extend the "right to exclude" already granted in the patent.

The subject matter claimed in the instant application is fully disclosed in the patent and is covered by the patent since the patent and the application are claiming common subject matter, as follows: Claim 1 of '227 does not exclude a protrusion. Therefore, it includes a protrusion especially because the specification clearly contemplates a protrusion in all of the embodiments. Therefore, the claims are overlapping in scope.

Furthermore, there is no apparent reason why applicant was prevented from presenting claims corresponding to those of the instant application during prosecution of the application which matured into a patent. See *In re Schneller*, 397 F.2d 350, 158 USPQ 210 (CCPA 1968). See also MPEP § 804.

Claims 1-3 are rejected on the ground of nonstatutory double patenting over claim 1 of U. S. Patent No. 6,597,090 since the claims, if allowed, would improperly extend the "right to exclude" already granted in the patent.

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The subject matter claimed in the instant application is fully disclosed in the patent and is covered by the patent since the patent and the application are claiming common subject matter, as follows: Claim 1 of '090 does not exclude a protrusion. Therefore, it includes a protrusion especially because the specification clearly contemplates a protrusion in all of the embodiments. Therefore, the claims are overlapping in scope.

Furthermore, there is no apparent reason why applicant was prevented from presenting claims corresponding to those of the instant application during prosecution of the application which matured into a patent. See *In re Schneller*, 397 F.2d 350, 158 USPQ 210 (CCPA 1968). See also MPEP § 804.

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., In re Berg, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); In re Goodman, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); In re Longi, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); In re Van Ornum, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); In re Vogel, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and In re Thorington, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Rebecca M. Stadler whose telephone number is 571-272-5956.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stanley Silverman can be reached on 571-272-1358. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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STUART L. HENDRICKSON PRIMARY EXAMINER

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